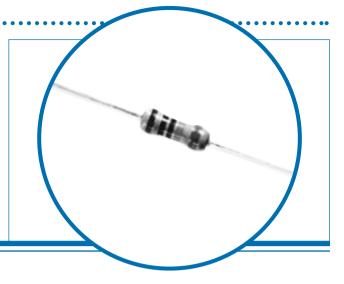
Precision Metal Film Resistors



PR series

- Low cost precision resistors
- Tolerances down to ±0.1%
- TCR down to 15ppm/°C



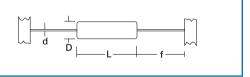
Electrical Data

		PR4	PR5
Power rating at 70°C	watts	0.25	0.5
Resistance range	ohms	100R – 240K	100R – 1M
Limiting element voltage	volts	250	350
TCR*	ppm/°C	25	25
Resistance tolerance	%	0.1, 0.25, 0.5, 1	0.1, 0.25, 0.5, 1
Standard values		E192	E192
Thermal impedance	°C/watt	140	112
Ambient temperature range	°C	-55 to 155	

^{*15}ppm/°C available by request

Physical Data

Dimensi	nsions (mm) & Weight (g)						
Type	L Max	D Max	f min	d nom	centres	PCB mounting radius	Min. bend Wt.nom
PR4	6.2	2.5	21	0.6	10.2	0.6	0.3
PR5	9.0	3.6	19.6	0.8	12.7	1.2	0.5



Construction

The resistance element is a precisely controlled thin film of metal alloy sputtered on to a high purity ceramic core, protected by a moisture-resistant, high dielectric strength coating applied so that terminations remain completely clear.

This permits a well defined body length (clean lead to clean lead dimension L).

Terminations

Material Solder-coated copper wire.

Strength The terminations meet the requirements of

IEC 68.2.21

Solderability The terminations meet the requirements of

IEC 115-1, Clause 4.17.3.2

Marking

Resistors are colour coded with 5 bands. IEC 62 colours are used.

Solvent Resistance

The body protection and marking are resistant to all normal industrial cleaning solvents suitable for printed circuits.

General Note

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.

A subsidiary of TT electronics plc

Precision Metal Film Resistors

PR series



Performance Data

		Maximum
Load: 1000 hours at 70°C	Δ R %	0.5
Derating from rated power at 70°C		zero at 155°C
Short term overload	ΔR %	0.25
Climatic	∆R %	0.5
Climatic category		55/125/56
Long term damp heat	ΔR %	0.5
Temperature rapid change	ΔR %	0.25
Resistance to solder heat	ΔR %	0.25
Vibration and bump	ΔR %	0.1
Insulation resistance	ohms	> 1G
Voltage proof	volts	400 min

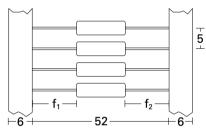
Packaging

All PR resistors are supplied tape packed ready for loading on to automatic sequencing and insertion machines.

Component wires will not protrude beyond the outside edge of the tapes.

Alternative packaging available by request.

Lead Formed resistors can also be supplied. Standard options of Lancet, Radial and Goalpost forming are shown in the Lead Form Information section.



Body location $f_1 - f_2 \le 1.4 \text{ mm}$

Standard Quantities Per Package

Туре	PR4	PR5
Large ammo pack	5000	2500